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## Earth Science 11 Summary Assignment

You may use all of your notes and other resources to complete this assignment.

## Part 1: MC

- 1. Compaction and lithification of weathered and eroded material results in what type of rock?
  - a. Igneous
  - b. Sedimentary
  - c. Metamorphic
  - d. Phaneritic
- 2. Select the mineral test that is used to determine a minerals reflectivity
  - a. Cleavage
  - b. Hardness
  - c. Lustre
  - d. Malleability
- 3. Exceptionally dark coloured minerals are referred to as
  - a. Mafic
  - b. Ultra mafic
  - c. Intermediate
  - d. Felsic
- 4. Which of the following is the strongest erosive force in nature?
  - a. Glacial
  - b. Wind
  - c. Water
  - d. All of the above
- 5. Why was Alfred Wegener's theory of continental drift originally refuted?
  - a. Nobody could explain how the plates moved
  - b. Fossil evidence did not support it
  - c. The continents don't actually fit into one another like puzzle pieces
  - d. Mountain ranges separated by oceans were not made of the same rock type
- 6. Which type of seismic wave causes the most damage?
  - a. S wave
  - b. P wave
  - c. L wave
  - d. R wave

		c.	L wave
		d.	R wave
	8. 7		type of volcano is made up of alternating layers of ash/dust and lava?
		a.	Cinder cone
			Composite cone
			Shield
		d.	All of the above
	9 1	What i	is the asthenosphere?
	<i>)</i> .		The upper mantle and crust
			The "layer of rock"
			A layer in the atmosphere
			The layer closest to the core of the earth
		α.	The layer elegant to the core of the cartin
	10.V	Which	layer of the atmosphere has the greatest density?
		a.	Thermosphere
		b.	Troposphere
		c.	Stratosphere
		d.	Mesosphere
	11 \	Which	air mass can be found ever ton of Mexico?
	11.		air mass can be found over top of Mexico?
			Continental polar
			Continental tropical Maritime polar
			Maritime tropical
		u.	Martune d'opicar
	12. V	What 1	happens when an air mass reaches 100% humidity?
		a.	A cloud forms
		b.	The dew point is reached
		c.	The air mass can not hold any more water vapour
		d.	All of the above
	10	TA71 :	
13. What type of fuel is burned in a main sequence star?			
			Hydrogen
			Helium
			Iron
		a.	Oxygen

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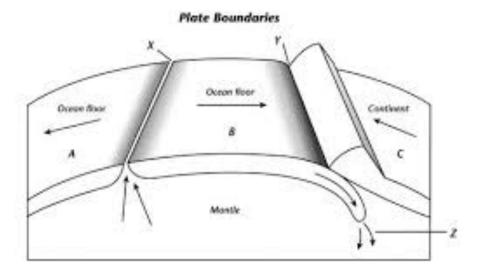
a. S waveb. P wave

7. Which seismic wave can travel through only solids?

- 14. How are stars on the Hertzsprung Russel Diagram classified?
  - a. By luminosity and Surface temperature
  - b. By luminosity and size
  - c. By size and surface temperature
  - d. By colour and brightness
- 15. What provides the most accurate reflection of the health of a water system?
  - a. Acidity
  - b. Marine life
  - c. Sediment levels
  - d. Dissolved oxygen
- 16. What does not help control the direction of surface ocean currents?
  - a. Continental deflections
  - b. Global wind patterns
  - c. Differences in water density
  - d. None of the above
- 17. What are three methods to which density of ocean water can increase?
  - a. Decreasing temperature
  - b. Increasing salinity through freezing
  - c. Increasing salinity from evaporation
  - d. All of the above

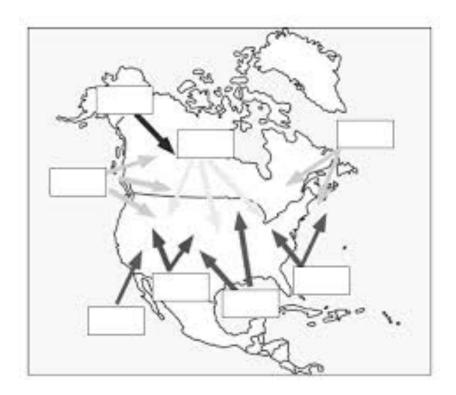
## Part 2: Diagrams

1. Label the diagram points A, B, C, X Y, and Z below



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2. Label the air masses below.



Part 3: Long Answers

1. Outline in detail the stages of the rock cycle.

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2.	Describe the differences between an explosive and non-explosive eruption.
3.	What evidence is there to support Alfred Wegener's theory of continental drift?
4.	What may happen differently when a low mass star dies versus when a large mass star dies?
5.	How do stars maintain an equilibrium of not collapsing in on themselves but also not exploding their material throughout space?
6.	List and describe the three methods by which dissolved oxygen becomes depleted in an aquatic environment.

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7.	Explain the difference between how a surface current and deep current moves.
8.	Explain what happens to an air mass as it gets heated, eventually cools and creates a resulting convection cell.
9.	How does temperature change as altitude increases throughout the layers of the atmosphere?